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10/553,668	10/17/2005	Herwig Buchholz	MERCK-2686-1	1550
23599 7590 05/14/2008 MILLEN, WHITE, ZELANO & BRANIGAN, P.C. 2200 CLARENDON BLVD.			EXAMINER	
			BLAKELY III, NELSON CLARENCE	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/553,668	BUCHHOLZ ET AL.			
Office Action Summary	Examiner	Art Unit			
	NELSON C. BLAKELY III	4131			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) ☐ Responsive to communication(s) filed on <u>07 Mar</u> 2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for alloward closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-25 and 28-32 is/are pending in the a 4a) Of the above claim(s) 17-25 and 28-32 is/ar 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-16 is/are rejected. 7) ☐ Claim(s) 2,3,5-11,13, 15, and 30 is/are objected. 8) ☐ Claim(s) are subject to restriction and/or	re withdrawn from consideration.				
9)⊠ The specification is objected to by the Examine	r.				
10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the orange Replacement drawing sheet(s) including the correction is objected to by the Extended Replacement or declaration is objected to by the Extended Replacement or declaration is objected to by the Extended Replacement or declaration is objected to by the Extended Replacement or declaration is objected to by the Extended Replacement or declaration is objected to by the Extended Replacement or declaration is objected to by the Extended Replacement or declaration is objected to by the Extended Replacement or declaration is objected to by the Extended Replacement or declaration is objected to by the Extended Replacement or declaration is objected to by the Extended Replacement or declaration is objected to by the Extended Replacement or declaration is objected to by the Extended Replacement or declaration is objected to by the Extended Replacement or declaration is objected to by the Extended Replacement or declaration is objected to by the Extended Replacement or declaration is objected to by the Extended Replacement or declaration is objected to be a specific to the extended Replacement or declaration is objected to be a specific to the extended Replacement or declaration is objected to be a specific to the extended Replacement or declaration is objected to be a specific to the extended Replacement or declaration is objected to be a specific to the extended Replacement or declaration is objected to be a specific to the extended Replacement or declaration is objected to be a specific to the extended Replacement or declaration is objected to the extended Replacement or declaration is obj	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 10/17/2005.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte			

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DETAILED ACTION

Application Status

1. Applicant's Amendment filed 03/07/2008 has been received and entered into the present application.

2. Claims 1-25 and 28-32 are pending. Claims 1-25 and 28-32 are amended. Claims 26, 27, 33, and 34 have been cancelled pursuant Applicant's Amendment, filed 03/07/2008. Claims 17-25 and 28-32 are drawn to a non-elected group, thus claims 1-16 are presented for examination.

Lack of Unity

Applicant's election <u>with traverse</u> of an antimicrobial pigment obtainable by agitating a suspension, said pigment comprising one or more inorganic pigments and silver oxide as an antimicrobial compound in the reply filed on 03/07/2008 is acknowledged by the Examiner. The traversal is on the ground(s) that unity of invention for the combination of an independent claim to a product, a process specially adapted for manufacturing the product, and the use of the product does not require a technical feature that defines a contribution over the prior art. Applicant's traversal has been carefully considered in its entirety, but is not found to be persuasive because the requirement of unity of invention referred to in Rule 13.1 shall be fulfilled only when there is a technical relationship among those inventions involving one or more of the same or corresponding technical features. The expression "special technical features"

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shall mean those technical features that define a contribution which each of the claimed inventions, considered as a whole, makes over the prior art.

Therefore, by the reasons above and those made of record at pages 2-7 of the previous Office Action on 02/13/2008, the requirement is still deemed proper and is therefore made **FINAL**.

Claims 17-25 and 28-32 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected group, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 03/07/2008.

Objections

Specification

The disclosure is objected to because of the following informalities:

Applicant's Amendment filed 03/07/2008 recites the relation to co-pending application Serial No. 10/553,671, filed 10/17/2005, and that both co-pending applications claim the benefit of priority to U.S. Provisional Application Serial No. 60/463,726, filed 04/18/2005; however, said application, '726, was filed 04/18/2003, not 04/18/2005.

The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Appropriate correction is required.

Claims

Claims 2, 3, 5-11, 13, 15 and 30 are objected to because of the following informalities:

- 1. On line 2 of both claims 2 and 3, it appears that "on" of the phrase "...wherein said on or more inorganic pigments..." is meant to be "one".
- 2. Regarding claims 3, 5-11, 13 and 15, Applicant is encouraged to use proper Markush group language. For instance, in line 2 of claim 3, the transitional phrase "...inorganic pigments are selected from the group consisting of..." should be used in lieu of "...inorganic pigments are...".
- 3. Regarding claim 30, chemical names are not proper nouns and thus should not be capitalized in claim 30.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

1. Claims 1-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The phrase "...said pigment comprising one or more inorganic pigments and silver oxide as an antimicrobial compound..." in claim 1 is confusing. It is unclear whether the antimicrobial compound comprises one or more inorganic pigments and silver oxide, or silver oxide alone. The metes and bounds of the antimicrobial compound are not clearly stated. For examination purposes, Examiner has interpreted said antimicrobial compound as one that comprises silver oxide alone.

Independent claim 1 discloses an antimicrobial pigment comprising one or more in organic pigments and silver oxide; however, claim 14 recites "inorganic pigments and antimicrobial pigments" as two distinct entities, so it is confusing as to whether the antimicrobial pigments, in fact, comprise the inorganic pigments of claim 14, or if there are additional inorganic pigments of the claimed invention. Appropriate action is required by Applicant.

The remaining claims are rejected as depending from a rejected claim.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

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1. Determining the scope and contents of the prior art.

- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Seo *et al*, U.S. Patent No. 6,030,627 (Cited by Applicant) in view of Seo *et al*. (Cosmetics & Toiletries ®, Vol. 112, pages 83-90; 1997; Cited by Applicant; Article provided by Examiner), and Goetz *et al*. (Reviews of Modern Physics, Vol. 20, No. 1, pages 131-142; 1948; Cited by Applicant; Article provided by Examiner), Iler, U.S. Patent No. 2,885,366, as evidenced by Aleksandrov *et al*. (Translated from Atomnaya Énergiya, Vol. 48, No. 4, pages 252-253; 1980).

Applicant claims an antimicrobial pigment obtainable by agitating a suspension, said pigment comprising one or more inorganic pigments and silver oxide as an antimicrobial compound. Applicant claims in claims 2-13 that the inorganic pigments are platelet-, spherical-, or needle-shaped effect pigments that are based on the

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substrate, synthetic mica, for example, whereby the substrate is coated with alternating layers of selectively absorbing, nonselectively absorbing or nonabsorbing metal oxides, namely titanium dioxide, wherein a dopant is additionally included. Applicant also claims that said inorganic pigment comprises spherical particles of metal oxides, wherein said spherical particles are coated with one or more layers of selectively or nonselectively absorbing or nonabsorbing metal oxides, and said antimicrobial pigment is coated with a protective layer of silica. Additionally, in claim 14 Applicant claims the value of said L, a, and b values to have a maximum deviation of -6≤ΔL≤6, -5≤Δa≤5, and -5≤Δb≤5, respectively. In claims 15 and 16, Applicant claims that said silver oxide is substituted by zinc oxide, for example, and that said antimicrobial compound, silver oxide or zinc oxide (See 35 U.S.C. 112, second paragraph, rejection regarding claims 1-16), is in the range of 0.001 to 10% by weight based on the inorganic pigment.

In reference claim 1, Seo *et al*, U.S. Patent No. '627, teach an antimicrobial cosmetic pigment comprising inorganic cosmetic pigment, amorphous glassy coating layer of metal oxide having a lattice structure formed over the surface of said inorganic cosmetic pigment and antimicrobial metals or antimicrobial metal ions intercalated inside the lattice structure of said coating layer of metal oxides. Seo *et al*, U.S. Patent No. '627, disclose in reference claims 3 and 4 that said inorganic cosmetic pigment is one or more of mica or titanium dioxide, for example, and wherein said coating layer of metal oxide comprises silica alone, or silica as the main ingredient and one or more selected from zinc oxide or ferric oxide (a dopant required by instant claim 9), for example, required by instant claims 1-13. Seo *et al*, U.S. Patent No. '627, further

disclose in reference claim 7 that said antimicrobial metal of said antimicrobial cosmetic pigment is selected from a group that consists of silver, copper, and zinc, which may be added as a metal oxide in powder form (page 7, lines 10-17 of the reference specification); therefore, silver oxide or zinc oxide, from the Election Requirement, may be used as the antimicrobial metal of instant claims 1-16.

Seo *et al*, U.S. Patent No. '627, differ in that the reference fails to disclose whether the inorganic pigment is platelet-, spherical-, or needle-shaped as required by instant claims 2, 10 and 11. Seo *et al*, U.S. Patent No. '627, additionally fails to teach the amount of antimicrobial compound in the range of 0.001 to 10% based on the inorganic pigment required by instant claim 16.

Seo *et al* (Cosmetics & Toiletries ®) recite an antimicrobial inorganic pigment comprising mica and titanium dioxide, several metal oxides, such as silica, as an amorphous coating, a coating comprising at least 70% silica applied at 15% by weight, a dopant, namely iron oxide, and silver ions on page 84, column 2, lines 14-33. Applicant discloses that the coating comprises one or more layers of selectively absorbing, nonselectively absorbing or nonabsorbing metal oxides, namely titanium dioxide, arranged as alternating layers with a refractive index n>1.8 and n≤1.8. Applicant, as part of the Election Requirement, elected titanium dioxide, which comprises a selectively absorbing, nonselectively absorbing or nonabsorbing metal oxide; however, Seo *et al* (Cosmetics & Toiletries ®) employs the use of several metal oxides, including silica, alumina, calcium carbonate, and sodium metasilicate, and a small quantity of iron oxide as an amorphous coating. Though Seo *et al* (Cosmetics &

Toiletries ®) does not teach the use solely of alternating layers of titanium dioxide as a coating, selectively absorbing, nonselectively absorbing or nonabsorbing metal oxides are used to make up the coating of the antimicrobial pigment of instant claims 6-8. Seo et al (Cosmetics & Toiletries ®) further incorporates the iron oxide as an inorganic colorant or element as the dopant required by instant claim 9.

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Seo *et al* (Cosmetics & Toiletries ®) differ in that the reference also fails to disclose whether the inorganic pigment is platelet-, spherical-, or needle-shaped as required by instant claims 2, 10 and 11, or any substitution of the antimicrobial compound, silver oxide, by zinc oxide, for example, as required by instant claim 15. Seo *et al* (Cosmetics & Toiletries ®) additionally fails to teach the amount of antimicrobial compound in the range of 0.001 to 10% based on the inorganic pigment required by instant claim 16.

Therefore, since Seo *et al* (Cosmetics & Toiletries ®) teach an antimicrobial inorganic pigment comprising an inorganic cosmetic pigment (i.e. mica), silver ions, and a metal oxide (i.e. titanium dioxide), coated with several metal oxides including silica and iron oxide, for example, but lacks disclosure for substituting silver ions for zinc oxide, a skilled artisan would envisage combining the work of Seo *et al*, U.S. Patent No. '627, who teach an antimicrobial cosmetic pigment comprising inorganic cosmetic pigment, amorphous glassy coating layer of metal oxide having a lattice structure formed over the surface of said inorganic cosmetic pigment and antimicrobial metals or antimicrobial metal ions, that may be substituted by zinc oxide, intercalated inside the lattice structure of said coating layer or metal oxides. It would have been obvious to

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one of ordinary skill in the art at the time of the invention because the combined teachings of the prior art is fairly suggestive of the claimed invention.

In regard to claim 14, Applicant claims the value of said L, a, and b values to have a maximum deviation of -6≤∆L≤6, -5≤∆a≤5, and -5≤∆b≤5, respectively. However, if an antimicrobial pigment comprised of the same or similar inorganic pigment(s), silver oxide, and layers of metal oxide coating as illustrated by Seo *et al*, U.S. Patent No. '627, and Seo *et al* (Cosmetics & Toiletries ®), then a skilled artisan would envisage with reasonable amount of certainty that the values of color, determined by the Hunter L, a, b Color Scale, would yield substantially similar results.

Applicant claims that the protective coating layer of said antimicrobial pigment of instant claims 12 and 13 is that of silica. On column 1, lines 15-26, and Figs. 1-3, ller teaches that products with an amorphous silica coating and a core of another solid material ordinarily assume the form of finely divided spheres, plates, or fibers (needle-shaped), satisfying the requirement of instant claim 2. Iler also discloses on column 3, lines 1-17 that typical cores are composed of metal oxides, such as titanium dioxide, whereas various varieties of mica comprise plate-like mineral silicates; therefore the use of metal oxides to coat the antimicrobial pigment would intrinsically take on the form of a spherical particle required by instant claims 10 and 11. Iler does not provide any teachings of a specific antimicrobial pigment, per se; however, the reference is intended to show evidence that products with an amorphous silica coating tend to form a shape of instant claim 2, and specifically, to show that metal oxides coated with silica take the form of a spherical shape required by instant claims 10 and 11.

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Furthermore, Applicant has elected synthetic mica as the substrate of instant claims 4-6. Seo *et al* (Cosmetics & Toiletries ®) disclose the use of mica as a substrate; however fails to disclose whether the mica used was that of natural or synthetic. Therefore, since Aleksandrov *et al* teach the precision measurements of the registration efficiency of natural mica (muscovite) and synthetic mica (fluorophologopite), and subsequently determined the average efficiency of natural and synthetic mica to be 95.2±0.55% and 95.6±0.4%, respectively, on page 258, lines 28-34, a skilled artisan would infer that natural and synthetic mica are functional equivalents.

In claim 16, Applicant claims that the amount of the antimicrobial compound, which could be interpreted as comprising one or more inorganic pigments and silver oxide, or silver oxide alone, see 35 U.S.C. 112, second paragraph, rejection regarding claims 1-16, is in the range of 0.001 to 10% by weight based on the inorganic pigment, namely an effect pigment, i.e. titanium dioxide. Goetz *et al* disclose a composition comprising titanium dioxide, an inorganic pigment, and silver oxide, and that in the experiments performed, the concentration of silver oxide, antimicrobial compound, did not exceed 10% of the mass of the titanium oxide substrate. Applicant has, by the Election Requirement, elected that said inorganic pigments are comprised of effect pigments. Applicant discloses on page 4, lines 20-26 of the instant specification that effect pigments are those based on substrates which can be additionally coated with one or more layers of selectively or nonselectively absorbing or nonabsorbing metal oxides, for example. Therefore, the titanium dioxide, as disclosed by Goetz *et al* may

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serve in the capacity of "effect pigment", thereby satisfying the requirement of instant claim 16.

Therefore, a skilled artisan would envisage, with a reasonable amount of success, the combination (See rationale above in the instant rejection) of the antimicrobial cosmetic pigment and antimicrobial inorganic pigments taught by Seo *et al*, U.S. Patent No. '627, and Seo *et al* (Cosmetics & Toiletries ®), respectively, in view of Goetz *et al*, who recited a composition with a maximum amount (10% by weight) of said antimicrobial compound based on said inorganic pigment, as evidenced by Iler, who taught that metal oxides coated with silica submit to the form of a spherical shape, and Aleksandrov *et al*, who disclosed the functional equivalents of natural and synthetic mica. Therefore, the claimed invention, as a whole, would have been obvious to one of ordinary skill in the art at the time of the invention because the combined teachings of the prior art is fairly suggestive of the claimed invention.

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Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422

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F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-16 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-28 and 33 of copending Application No. 10/553,671, in view of Park et al, U.S. Patent No. 6,372,236. Although the conflicting claims are not identical, they are not patentably distinct from each other because the instant application claims an antimicrobial pigment obtainable by agitating a suspension, said pigment comprising one or more inorganic pigments and silver oxide as an antimicrobial compound, and copending application, Serial No. '671, claims a formulation comprising pigment particles obtainable by agitating a suspension comprising one or more inorganic pigments and silver oxide, in order to reduce undesirable side-effects caused by microorganisms. Both the instant and copending applications recite an antimicrobial pigment or pigment particles comprising one or more inorganic pigments and silver oxide, wherein inorganic pigments are platelet-, spherical-, or needle-shaped effect pigments that are based on the substrate, synthetic mica, whereby the substrate is coated with alternating layers of selectively absorbing, nonselectively absorbing or nonabsorbing metal oxides, namely titanium dioxide, wherein a dopant is additionally included. Applicants, in both applications also claim

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that said inorganic pigment comprises spherical particles of metal oxides, wherein said spherical particles are coated with one or more layers of selectively or nonselectively absorbing or nonabsorbing metal oxides, said inorganic pigment is coated with a protective layer of silica, and that silver oxide may, in fact, be substituted by zinc oxide. The main difference between the instantly claimed subject matter and that of the conflicting claims lies in the functional language, i.e. statements of intended use, recited in each of the claimed sets. The copending application, Serial No. '671, discloses that the formulation further comprises preservatives, antimicrobial agents, antibiotics, namely Vancomycin, one or more UV filters, at least one self-tanning agent, dyes and coloured pigments, at least one antioxidant, vitamins, skin-protecting or skin-care active ingredients, and at least one photostabiliser. The copending application, Serial No. '671, additionally discloses that the formulation is in the form of a cream, for example, which further comprises at least one customary excipient from animal and vegetable fats, for example. Though the subject matter of the instant application does not distinctly claim the use of said antimicrobial pigment, the independent claim 1 uses open language, i.e. comprising, which could include the additional requisite subject matter of copending application, Serial No. '671. Additionally, Park et al disclose a cream composition for skin care comprising ceramides, for example. The Park et al. reference simply serves to illustrate the fact that cream formulations are conventional topical applications in the art, and a skilled artisan would envisage topical applications via a cream, for example, as an alternate route of administration. Therefore, a

provisional obviousness-type double patenting rejection with regard to claims 1-16 is proper.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Other Matter

It is noted that in Applicant's Election, in response to Examiner's Restriction Requirement, Applicant elected silica in species group (e) with regard to claims 3 and 23; however, the requirement of species group (e) was directed to claims 13 and 23. For examination purposes, Examiner has interpreted silica as the elected species of claims 13 and 23.

Conclusion

The specification is objected to.

Claims 1-25 and 28-32 are pending.

Claims 17-25 and 28-32 are withdrawn from consideration.

Claims 2, 3, 5-11, 13, 15 and 30 are objected.

Claims 1-16 are rejected.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NELSON C. BLAKELY III whose telephone number is

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(571) 270-3290. The examiner can normally be reached on Mon - Thurs, 7:00 am -

5:30 pm (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cecilia Tsang or Janet Andres can be reached on (571) 272-0562 or (571) 272-0867, respectively. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/N. C. B. III/ Examiner, Art Unit 4131

/Cecilia Tsang/ Supervisory Patent Examiner, Art Unit 4131